PCT09

RAW SEQUENCE LISTING DATE: 06/04/2002
PATENT APPLICATION: US/09/807,452 TIME: 15:07:27

Input Set : A:\pf0619usn_sequence listing.txt
Output Set: N:\CRF3\06042002\I807452.raw

ENTERED

4 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.
5 TANG, Y. Tom
6 YUE, Henry
7 HILLMAN, Jennifer L.
8 GUEGLER, Karl J.
9 CORLEY, Neil C.
10 LAL,Preeti
11 AZIMZAI, Yalda
12 BAUGHN, Mariah R.
13 JUNMING, Yang
14 SHIH, Leo L.

16 <120> TITLE OF INVENTION: PROLIFERATION AND APOPTOSIS RELATED PROTEINS
18 <130> FILE REFERENCE: PF-0619 PCT
C--> 20 **<140> CURRENT APPLICATION NUMBER: US/09/807,452**
C--> 21 **<141> CURRENT FILING DATE: 2002-04-17**
23 <150> PRIOR APPLICATION NUMBER: 09/175,737; unassigned; 60/118,559; 09/249,740; unassigned;
W--> 24 **60/154,336**
W--> 25 **<151> PRIOR FILING DATE: 1998-10-20; 1998-10-20; 1999-02-04; 1999-04-11; 1999-04-11;**
W--> 26 **1999-04-22**
28 <160> NUMBER OF SEQ ID NOS: 44
30 <170> SOFTWARE: PERL Program
32 <210> SEQ ID NO: 1
33 <211> LENGTH: 334
34 <212> TYPE: PRT
35 <213> ORGANISM: Homo sapiens
37 <220> FEATURE:
38 <221> NAME/KEY: misc_feature
39 <223> OTHER INFORMATION: Incyte ID No: 1342011CD1
41 <400> SEQUENCE: 1

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43   1               5                  10                  15
44 Val Thr Gly Ala Gly Gly Trp Gly Ser Ala Ala Val Cys Arg Gly
45                  20                  25                  30
46 Arg Ala Leu Arg Gly Arg Glu Pro Ala Leu Pro Ser Ala Ser Phe
47                  35                  40                  45
48 Pro Asp Val Ala Ala Cys Pro Gly Ser Leu Asp Cys Ala Leu Lys
49                  50                  55                  60
50 Arg Arg Ala Arg Cys Pro Pro Gly Ala His Ala Cys Gly Pro Cys
51                  65                  70                  75
52 Leu Gln Pro Phe Gln Glu Asp Gln Gln Gly Leu Cys Val Pro Arg
53                  80                  85                  90
54 Met Arg Arg Pro Pro Gly Gly Gly Arg Pro Gln Pro Arg Leu Glu
55                  95                 100                 105
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56 Asp Glu Ile Asp Phe Leu Ala Gln Glu Leu Ala Arg Lys Glu Ser
57                 110                 115                 120
58 Gly His Ser Thr Pro Pro Leu Pro Lys Asp Arg Gln Arg Leu Pro
59                 125                 130                 135
60 Glu Pro Ala Thr Leu Gly Phe Ser Ala Arg Gly Gln Gly Leu Glu
61                 140                 145                 150
62 Leu Gly Leu Pro Ser Thr Pro Gly Thr Pro Thr Pro Thr Pro His
63                 155                 160                 165
64 Thr Ser Leu Gly Ser Pro Val Ser Ser Asp Pro Val His Met Ser
65                 170                 175                 180
66 Pro Leu Glu Pro Arg Gly Gly Gln Gly Asp Gly Leu Ala Leu Val
67                 185                 190                 195
68 Leu Ile Leu Ala Phe Cys Val Ala Gly Ala Ala Ala Leu Ser Val
69                 200                 205                 210
70 Ala Ser Leu Cys Trp Cys Arg Leu Gln Arg Glu Ile Arg Leu Thr
71                 215                 220                 225
72 Gln Lys Ala Asp Tyr Ala Thr Ala Lys Ala Pro Gly Ser Pro Ala
73                 230                 235                 240
74 Ala Pro Arg Ile Ser Pro Gly Asp Gln Arg Leu Ala Gln Ser Ala
75                 245                 250                 255
76 Glu Met Tyr His Tyr Gln His Gln Arg Gln Gln Met Leu Cys Leu
77                 260                 265                 270
78 Glu Arg His Lys Glu Pro Pro Lys Glu Leu Asp Thr Ala Ser Ser
79                 275                 280                 285
80 Asp Glu Glu Asn Glu Asp Gly Asp Phe Thr Val Tyr Glu Cys Pro
81                 290                 295                 300
82 Gly Leu Ala Pro Thr Gly Glu Met Glu Val Arg Asn Pro Leu Phe
83                 305                 310                 315
84 Asp His Ala Ala Leu Ser Ala Pro Leu Pro Ala Pro Ser Ser Pro
85                 320                 325                 330
86 Pro Ala Leu Pro
89 <210> SEQ ID NO: 2
90 <211> LENGTH: 281
91 <212> TYPE: PRT
92 <213> ORGANISM: Homo sapiens
94 <220> FEATURE:
95 <221> NAME/KEY: misc_feature
96 <223> OTHER INFORMATION: Incyte ID No: 1880041CD1
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101 Ser Arg His Asp Met Leu Ala Trp Val Asn Asp Ser Leu His Leu
102                 20                  25                  30
103 Asn Tyr Thr Lys Ile Glu Gln Leu Cys Ser Gly Ala Ala Tyr Cys
104                 35                  40                  45
105 Gln Phe Met Asp Met Leu Phe Pro Gly Cys Val His Leu Arg Lys
106                 50                  55                  60
107 Val Lys Phe Gln Ala Lys Leu Glu His Glu Tyr Ile His Asn Phe
108                 65                  70                  75
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Output Set: N:\CRF3\06042002\I807452.raw

```
109 Lys Val Leu Gln Ala Ala Phe Lys Lys Met Gly Val Asp Lys Ile
110                  80                  85                  90
111 Ile Pro Val Glu Lys Leu Val Lys Gly Lys Phe Gln Asp Asn Phe
112                  95                 100                 105
113 Glu Phe Ile Gln Trp Phe Lys Lys Phe Phe Asp Ala Asn Tyr Asp
114                 110                 115                 120
115 Gly Lys Asp Tyr Asn Pro Leu Leu Ala Arg Gln Gly Gln Asp Val
116                 125                 130                 135
117 Ala Pro Pro Pro Asn Pro Gly Asp Gln Ile Phe Asn Lys Ser Lys
118                 140                 145                 150
119 Lys Leu Ile Gly Thr Ala Val Pro Gln Arg Thr Ser Pro Thr Gly
120                 155                 160                 165
121 Pro Lys Asn Met Gln Thr Ser Gly Arg Leu Ser Asn Val Ala Pro
122                 170                 175                 180
123 Pro Cys Ile Leu Arg Lys Asn Pro Pro Ser Ala Arg Asn Gly Gly
124                 185                 190                 195
125 His Glu Thr Asp Ala Gln Ile Leu Glu Leu Asn Gln Gln Leu Val
126                 200                 205                 210
127 Asp Leu Lys Leu Thr Val Asp Gly Leu Glu Lys Glu Arg Asp Phe
128                 215                 220                 225
129 Tyr Phe Ser Lys Leu Arg Asp Ile Glu Leu Ile Cys Gln Glu His
130                 230                 235                 240
131 Glu Ser Glu Asn Ser Pro Val Ile Ser Gly Ile Ile Gly Ile Leu
132                 245                 250                 255
133 Tyr Ala Thr Glu Glu Gly Phe Ala Pro Pro Glu Asp Asp Glu Ile
134                 260                 265                 270
135 Glu Glu His Gln Gln Glu Asp Gln Asp Glu Tyr
136                 275                 280
139 <210> SEQ ID NO: 3
140 <211> LENGTH: 237
141 <212> TYPE: PRT
142 <213> ORGANISM: Homo sapiens
144 <220> FEATURE:
145 <221> NAME/KEY: misc_feature
146 <223> OTHER INFORMATION: Incyte ID No: 3201881CD1
148 <400> SEQUENCE: 3
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150   1               5                  10                  15
151 Ser Asp Met Arg Gln Glu Lys Pro Ser Ser Pro Ser Pro Met Pro
152                  20                  25                  30
153 Ser Ser Thr Pro Ser Pro Ser Leu Asn Leu Gly Asn Thr Glu Glu
154                  35                  40                  45
155 Ala Ile Arg Asp Asn Ser Gln Val Asn Ala Val Thr Val Leu Thr
156                  50                  55                  60
157 Leu Leu Asp Lys Leu Val Asn Met Leu Asp Ala Val Gln Glu Asn
158                  65                  70                  75
159 Gln His Lys Met Glu Gln Arg Gln Ile Ser Leu Glu Gly Ser Val
160                  80                  85                  90
161 Lys Gly Ile Gln Asn Asp Leu Thr Lys Leu Ser Lys Tyr Gln Ala
```

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Input Set : A:\pf0619usn_sequence listing.txt
Output Set: N:\CRF3\06042002\I807452.raw

```
                    95                  100                 105
Ser Thr Ser Asn Thr Val Ser Lys Leu Leu Glu Lys Ser Arg Lys
                   110                 115                 120
Val Ser Ala His Thr Arg Ala Val Lys Glu Arg Met Asp Arg Gln
                   125                 130                 135
Cys Ala Gln Val Lys Arg Leu Glu Asn Asn His Ala Gln Leu Leu
                   140                 145                 150
Arg Arg Asn His Phe Lys Val Leu Ile Phe Gln Glu Glu Asn Glu
                   155                 160                 165
Ile Pro Ala Ser Val Phe Val Lys Gln Pro Val Ser Gly Ala Val
                   170                 175                 180
Glu Gly Lys Glu Glu Leu Pro Asp Glu Asn Lys Ser Leu Glu Glu
                   185                 190                 195
Thr Leu His Thr Val Asp Leu Ser Ser Asp Asp Asp Leu Pro His
                   200                 205                 210
Asp Glu Glu Ala Leu Glu Asp Ser Ala Glu Glu Lys Val Gly Arg
                   215                 220                 225
Ser Pro Arg Gly Arg Glu Ile Lys Arg Ser Arg Pro
                   230                 235
<210> SEQ ID NO: 4
<211> LENGTH: 941
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<220> FEATURE:
<221> NAME/KEY: misc_feature
<223> OTHER INFORMATION: Incyte ID No: 939000CD1
<400> SEQUENCE: 4
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  1                 5                  10                  15
Gly Tyr Val Pro Gly Leu Gly Arg Gly Ala Thr Gly Phe Thr Thr
                  20                  25                  30
Arg Ser Asp Ile Gly Pro Ala Arg Asp Ala Asn Asp Pro Val Asp
                  35                  40                  45
Asp Arg His Ala Pro Pro Gly Lys Arg Thr Val Gly Asp Gln Met
                  50                  55                  60
Lys Lys Asn Gln Ala Ala Asp Asp Asp Asp Glu Asp Leu Asn Asp
                  65                  70                  75
Thr Asn Tyr Asp Glu Phe Asn Gly Tyr Ala Gly Ser Leu Phe Ser
                  80                  85                  90
Ser Gly Pro Tyr Glu Lys Asp Asp Glu Glu Ala Asp Ala Ile Tyr
                  95                 100                 105
Ala Ala Leu Asp Lys Arg Met Asp Glu Arg Arg Lys Glu Arg Arg
                 110                 115                 120
Glu Gln Arg Glu Lys Glu Glu Ile Glu Lys Tyr Arg Met Glu Arg
                 125                 130                 135
Pro Lys Ile Gln Gln Gln Phe Ser Asp Leu Lys Arg Lys Leu Ala
                 140                 145                 150
Glu Val Thr Glu Glu Glu Trp Leu Ser Ile Pro Glu Val Gly Asp
                 155                 160                 165
```

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Input Set : A:\pf0619usn_sequence listing.txt
Output Set: N:\CRF3\06042002\I807452.raw

```
215 Ala Arg Asn Lys Arg Gln Arg Asn Pro Arg Tyr Glu Lys Leu Thr
216                 170                 175                 180
217 Pro Val Pro Asp Ser Phe Phe Ala Lys His Leu Gln Thr Gly Glu
218                 185                 190                 195
219 Asn His Thr Ser Val Asp Pro Arg Gln Thr Gln Phe Gly Gly Leu
220                 200                 205                 210
221 Asn Thr Pro Tyr Pro Gly Gly Leu Asn Thr Pro Tyr Pro Gly Gly
222                 215                 220                 225
223 Met Thr Pro Gly Leu Met Thr Pro Gly Thr Gly Glu Leu Asp Met
224                 230                 235                 240
225 Arg Lys Ile Gly Gln Ala Arg Asn Thr Leu Met Asp Met Arg Leu
226                 245                 250                 255
227 Ser Gln Val Ser Asp Ser Val Ser Gly Gln Thr Val Val Asp Pro
228                 260                 265                 270
229 Lys Gly Tyr Leu Thr Asp Leu Asn Ser Met Ile Pro Thr His Gly
230                 275                 280                 285
231 Gly Asp Ile Asn Asp Ile Lys Lys Ala Arg Leu Leu Leu Lys Ser
232                 290                 295                 300
233 Val Arg Glu Thr Asn Pro His His Pro Pro Ala Trp Ile Ala Ser
234                 305                 310                 315
235 Ala Arg Leu Glu Glu Val Thr Gly Lys Leu Gln Val Ala Arg Asn
236                 320                 325                 330
237 Leu Ile Met Lys Gly Thr Glu Met Cys Pro Lys Ser Glu Asp Val
238                 335                 340                 345
239 Trp Leu Glu Ala Ala Arg Leu Gln Pro Gly Asp Thr Ala Lys Ala
240                 350                 355                 360
241 Val Val Ala Gln Ala Val Arg His Leu Pro Gln Ser Val Arg Ile
242                 365                 370                 375
243 Tyr Ile Arg Ala Ala Glu Leu Glu Thr Asp Ile Arg Ala Lys Lys
244                 380                 385                 390
245 Arg Val Leu Arg Lys Ala Leu Glu His Val Pro Asn Ser Val Arg
246                 395                 400                 405
247 Leu Trp Lys Ala Ala Val Glu Leu Glu Glu Pro Glu Asp Ala Arg
248                 410                 415                 420
249 Ile Met Leu Ser Arg Ala Val Glu Cys Cys Pro Thr Ser Val Glu
250                 425                 430                 435
251 Leu Trp Leu Ala Leu Ala Arg Leu Glu Thr Tyr Glu Asn Ala Arg
252                 440                 445                 450
253 Lys Val Leu Asn Lys Ala Arg Glu Asn Ile Pro Thr Asp Arg His
254                 455                 460                 465
255 Ile Trp Ile Thr Ala Ala Lys Leu Glu Glu Ala Asn Gly Asn Thr
256                 470                 475                 480
257 Gln Met Val Glu Lys Ile Ile Asp Arg Ala Ile Thr Ser Leu Arg
258                 485                 490                 495
259 Ala Asn Gly Val Glu Ile Asn Arg Glu Gln Trp Ile Gln Asp Ala
260                 500                 505                 510
261 Glu Glu Cys Asp Arg Ala Gly Ser Val Ala Thr Cys Gln Ala Val
262                 515                 520                 525
263 Met Arg Ala Val Ile Gly Ile Gly Ile Glu Glu Glu Asp Arg Lys
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